

1ST PERIODIC MONITORING REPORT OF WIND POWER PROJECT IN MAHARASHTRA, INDIA – ANDHRA LAKE PHASE - I



Document Prepared By CLP Wind Farms (India) Private Limited

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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

CLP Wind Farms (India) Private Limited (CLPWF), now onwards referred as the Project Proponent (PP) in this PD, has developed a green-field wind based electricity generation project at Andhra Lake, Pune District, in the State of Maharashtra.

Project Proponent plans to eventually establish 113.6 MW wind farm in three phases. Currently Phase – I of 56.0 MW capacity and Phase-II of 50.4 MW capacity has been commissioned. Phase-III of 7.2 MW is under development. Project activity under this PD refers to development of 56.0 MW (Andhra Lake Phase - I) and will be referred as the Project in this PD.

The Project would install 70 number of Enercon (India) Limited (EIL) make E-53 Wind Turbine Generators (WTGs) to generate electrical power for export to the distribution licensee. In the baseline scenario, the similar quantum of electricity would have been generated by the operation of grid- connected power plants and by the addition of new generation sources that would have led to emission of Green House Gases (GHGs).

Detailed locations and commissioning dates of the Project are provided in section 1.7 of this report. Total emissions reductions generated by the Project during this monitoring period are 171,065 tCO₂e.

1.2 Sectoral Scope and Project Type

The project activity is considered under “grid-connected electricity generation from renewable sources” (Sectoral Scope) that generates electricity in excess of 15 MW (limit for small scale project). Therefore as per the scope of the project activity enlisted in the “list of sectoral scopes and related approved baseline and monitoring methodologies”, the project activity is categorized in Scope Number 1. Details of the same are listed below:

Scope Number : 1

Sectoral Scope : Energy industries (renewable/non-renewable sources)

Project Type : Project

Methodology : ACM0002 - Consolidated baseline methodology for grid-connected electricity generation from renewable sources (Version 12.3.0)

The Project is neither a grouped nor an AFOLU project.

1.3 Project Proponent

The project proponent details are as follows;

Organization name	CLP Wind Farms (India) Private Limited
Contact person	Mr. Dipjay Sanchania
Title	Head – CDM

Address	15 th Floor, Oberoi Commerz, Off. Western Express Highway, Goregaon (E), Mumbai 400 063 India
Telephone	+ 91 22 6758 8888
Email	carbon@clpindia.in

1.4 Other Entities Involved in the Project

Organization name	Not Applicable
Contact person	Not Applicable
Title	Not Applicable
Address	Not Applicable
Telephone	Not Applicable
Email	Not Applicable

1.5 Project Start Date

19-Aug-2011, being the date of commissioning of first WEG installed under the project activity.

1.6 Project Crediting Period

Crediting Period: 10 years 0 months (renewable twice)

Start Date of Crediting Period: 19-Aug-2011

End Date of Crediting Period: 18-Aug-2021

The Project Proponent confirms that the Project is also registered under CDM¹ on 10/08/2012 and they will claim emissions reductions from the Project only in one mechanism for a particular period to avoid double counting.

1.7 Project Location

Site : Andhra Lake
District : Pune
State : Maharashtra
Host Party : India

The Project activity is located in the Khed and Maval taluk of Pune district in Maharashtra. The nearest airport and railway station is in Pune city. The coordinates of individual WEGs of this site are as below:

¹ <http://cdm.unfccc.int/Projects/DB/LRQA%20Ltd1343392693.61/view>

Sr. No.	Location No.	Date of WEC commissioning	Latitude			Longitude		
			Deg.	Minutes	Second	Deg.	Minutes	Second
1	141	19-Aug-11	18	56	54.2	73	39	18.0
2	140	19-Aug-11	18	56	57.0	73	39	10.6
3	139	19-Aug-11	18	57	1.4	73	39	2.6
4	138	19-Aug-11	18	57	3.9	73	38	54.6
5	137	19-Aug-11	18	57	8.2	73	38	42.1
6	136	19-Aug-11	18	57	9.6	73	38	33.4
7	135	19-Aug-11	18	57	16.4	73	38	32.4
8	134	19-Aug-11	18	57	21.9	73	38	28.8
9	133	19-Aug-11	18	57	26.6	73	38	26.3
10	132	19-Aug-11	18	57	31.3	73	38	23.3
11	131	19-Aug-11	18	57	37.0	73	38	21.6
12	130	19-Aug-11	18	57	41.0	73	38	19.2
13	129	19-Aug-11	18	57	46.4	73	38	15.9
14	128	19-Aug-11	18	57	51.6	73	38	14.9
15	127	19-Aug-11	18	57	56.9	73	38	15.9
16	48	19-Aug-11	18	53	46.1	73	35	48.3
17	49	19-Aug-11	18	53	49.5	73	35	45.0
18	50	19-Aug-11	18	53	54.4	73	35	41.9
19	53	19-Aug-11	18	54	10.6	73	35	25.9
20	54	19-Aug-11	18	54	8.3	73	35	39.2
21	55	19-Aug-11	18	54	16.7	73	35	35.2
22	56	19-Aug-11	18	54	20.4	73	35	31.1
23	57	19-Aug-11	18	54	27.4	73	35	26.5
24	58	19-Aug-11	18	54	32.6	73	35	26.5
25	59	19-Aug-11	18	54	41.7	73	35	21.2
26	60	19-Aug-11	18	54	45.9	73	35	17.3

Sr. No.	Location No.	Date of WEC commissioning	Latitude			Longitude		
			Deg.	Minutes	Second	Deg.	Minutes	Second
27	62	19-Aug-11	18	54	54.3	73	35	12.2
28	65	19-Aug-11	18	55	9.8	73	35	6.7
29	66	19-Aug-11	18	55	14.6	73	35	5.6
30	67	19-Aug-11	18	55	17.3	73	34	49.7
31	68	19-Aug-11	18	55	24.5	73	34	54.5
32	70	19-Aug-11	18	55	36.0	73	34	26.1
33	71	19-Aug-11	18	55	40.5	73	34	20.6
34	72	19-Aug-11	18	55	43.0	73	34	15.0
35	98	19-Aug-11	18	58	12.0	73	31	54.2
36	99	19-Aug-11	18	58	17.6	73	31	51.3
37	100	19-Aug-11	18	58	21.7	73	31	47.0
38	101	19-Aug-11	18	58	27.0	73	31	45.0
39	102	19-Aug-11	18	58	31.	73	31	42.3
40	103	19-Aug-11	18	58	36.0	73	31	42.1
41	104	19-Aug-11	18	58	42.1	73	31	42.1
42	105	19-Aug-11	18	58	45.5	73	31	41.9
43	506	19-Aug-11	18	58	55.5	73	31	50.4
44	106	19-Aug-11	18	58	50.3	73	31	43.8
45	73	18-Oct-11	18	55	51.2	73	34	16.1
46	74	18-Oct-11	18	55	57.1	73	34	13.1
47	75	18-Oct-11	18	56	1.0	73	34	7.6
48	77	18-Oct-11	18	56	16.9	73	33	47.9
49	78	18-Oct-11	18	56	19.9	73	33	46.1
50	79	18-Oct-11	18	56	26.7	73	33	45.5
51	80	18-Oct-11	18	56	31.7	73	33	43.7
52	82	18-Oct-11	18	56	45.2	73	33	0.9

Sr. No.	Location No.	Date of WEC commissioning	Latitude			Longitude		
			Deg.	Minutes	Second	Deg.	Minutes	Second
53	84	18-Oct-11	18	56	56.5	73	32	57.5
54	85	18-Oct-11	18	56	59.6	73	32	53.6
55	63	31-Oct-11	18	54	59.9	73	35	10.0
56	64	31-Oct-11	18	55	4.9	73	35	8.1
57	69	31-Oct-11	18	55	30.5	73	34	53.9
58	88	31-Oct-11	18	57	41	73	38	19.2
59	51	28-Dec-11	18	53	59.1	73	35	37.7
60	52	28-Dec-11	18	54	4.0	73	35	33.7
61	61	28-Dec-11	18	54	48.9	73	35	15.5
62	76	28-Dec-11	18	57	21.9	73	38	28.8
63	83	28-Dec-11	18	56	51.0	73	33	0.1
64	86	28-Dec-11	18	57	9.6	73	38	33.4
65	87	28-Dec-11	18	57	6.2	73	32	40.6
66	89	28-Dec-11	18	57	14.8	73	32	27.1
67	90	28-Dec-11	18	57	22.7	73	32	26.3
68	91	28-Dec-11	18	57	29.3	73	32	27.5
69	92	28-Dec-11	18	57	33.9	73	32	26.2
70	93	28-Dec-11	18	57	38.4	73	32	20.1

1.8 Title and Reference of Methodology

The approved consolidated baseline and monitoring methodology ACM0002 (Version 12.3.0, EB67), has been used to determine the baseline emissions and emission reduction due to the project activity. The details of the methodology are mentioned below:

Title of the baseline and monitoring methodology: "Consolidated Baseline Methodology for grid connected electricity generation from renewable sources"

Reference: ACM0002, Version 12.3.0,
Sectoral scope: 1

It has been referred from the list of approved methodologies for CDM project activities on the UNFCCC CDM website (<http://cdm.unfccc.int/methodologies/PAmethodologies/approved.html>).

The approved methodology also draws upon:

- Version 06.0.0 (EB 65, Annex 21, 25th November 2011) of the “Tool for the demonstration and assessment of additionality”; and
- Version 02.2.1 (EB 63, Annex 19, 29th September 2011) of the “Tool to calculate the emission factor for an electricity system”
- Guidance on assessment of investment analysis (Annex 05, EB 62)

1.9 Other Programs

The Project is a CDM registered Project activity and its CDM details are as follows,

Project Title: Wind power project in Maharashtra, India – Andhra Lake Phase - I

CDM Registration Number: 6882

Crediting Period Start Date: 31 July 2013

Emission Reduction Claimed Till Date: No claim made till date

Further, the net GHG Emission reductions or removals generated by the project activity will not be used for compliance with an emission trading program or to meet binding limits on GHG Emissions.

2 IMPLEMENTATION STATUS

2.1 Implementation Status of the Project Activity

- **Implementation Status:**
All the WEGs of the Project are commissioned and the Project is fully implemented. The commissioning dates of the individual WEGs have been provided in section 1.7.
- **Events that may impact the GHG emission reductions or removals and monitoring:**
No such events took place during this monitoring period that may impact the GHG emission reductions for the project activity. The project activity has been exporting electricity continuously since commissioning. There were neither major breakdowns nor other events for the project activity during the monitoring period that may impact the GHG emission reductions for the project activity.

2.2 Deviations

2.2.1 Methodology Deviations

There are no deviations related to methodology.

2.2.2 Project Description Deviations

There are no deviations related to Project Description.

2.3 Grouped Project

Not Applicable

3 DATA AND PARAMETERS

3.1 Data and Parameters Available at Validation

Data / Parameter	EF _{OM,y}		
Data unit	tCO2e/MWh		
Description	Operating Margin emission factor for NEWNE grid		
Source of data	Referred from CO ₂ Baseline Database for the Indian Power Sector prepared by Central Electricity Authority, Version 6.0.		
Value applied:	Calculated it as CEA sourced data 3 years vintage data (2007-08, 2008-09 and 2009-10) and option of ex ante calculation based on Simple Operating Margin Method. Computed once during PDD finalization.		
	Year	Simple operating margin of NEWNE regional grid (tCO2e/MWh)	Net electricity generation in the year (GWh)
	2007-08	0.9999	401,642
	2008-09	1.0006	421,8063
	2009-10	0.9777	458,043
	Generation weighted average Operating Margin emission factor in the last three years		0.9942
Justification of choice of data or description of measurement methods and procedures applied	Data is taken as per the methodology, guidelines and tools mentioned in section 1.8 of this monitoring report.		
Purpose of the data	Baseline Emission calculation		
Comments	Operating margin emission factor is fixed ex-ante throughout the crediting period.		

Data / Parameter	$EF_{BM,y}$		
Data unit	tCO ₂ /MWh		
Description	Build Margin emission factor for NEWNE grid		
Source of data	Referred from CO ₂ Baseline Database for the Indian Power Sector prepared by		
Value applied:	0.8123		
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per CEA sourced data for the year 2009-10.		
Purpose of the data	Baseline Emission calculation		
Comments	Build margin emission factor is fixed ex-ante throughout the crediting period.		

Data / Parameter	$EF_{grid, CM, y}$		
Data unit	tCO ₂ /MWh		
Description	Combined Margin CO ₂ emission factor for NEWNE grid		

Source of data	Estimated figure based on 75% of OM and 25% of BM values								
Value applied:	0.9487 tCO ₂ /MWh								
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per CEA sourced data with 3 years vintage data and option of ex ante calculation based on 75% of OM and 25% of BM values approach. Computed once during PDD finalization. <table border="1"> <thead> <tr> <th colspan="2">Combined Margin Estimation for NEWNE Grid (tCO₂e / MWh)</th></tr> </thead> <tbody> <tr> <td>Generation Weighted Average OM (EF_{grid}, OM, y)</td><td>0.9942</td></tr> <tr> <td>BM (EF_{grid}, BM, y)</td><td>0.8123</td></tr> <tr> <td>Combined Margin (EFCO₂)</td><td>0.9487</td></tr> </tbody> </table>	Combined Margin Estimation for NEWNE Grid (tCO ₂ e / MWh)		Generation Weighted Average OM (EF _{grid} , OM, y)	0.9942	BM (EF _{grid} , BM, y)	0.8123	Combined Margin (EFCO ₂)	0.9487
Combined Margin Estimation for NEWNE Grid (tCO ₂ e / MWh)									
Generation Weighted Average OM (EF _{grid} , OM, y)	0.9942								
BM (EF _{grid} , BM, y)	0.8123								
Combined Margin (EFCO ₂)	0.9487								
Purpose of the data	Baseline Emission calculation								
Comments	Build margin emission factor is fixed ex-ante throughout the crediting period.								

3.2 Data and Parameters Monitored

Data / Parameter	EG _{export,y}
Data unit	MWh/yr
Description	Quantity of electricity exported by the Project to the grid in year y
Source of data	Joint Meter Reading Sheets and generation reports issued by Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL) for all the feeders to which WTGs of the project activity are connected. EG export, y will be summation of readings of individual Joint Meter Reading Sheets.
Description of measurement methods and procedures to be applied	The PP shall duly install the approved ABT meters with accuracy class of 0.2 s with online metering features at the metering point (Main Meter). The PP will also install Check meter with separate CT/PT of class 0.2s. Quantity of electricity exported by the Project to the grid would be calculated using the sum of readings taken at the main/check meter installed at the interconnection points. The WTGs of CLPWF would be connected to the main meter of accuracy class 0.2s at the substation. Data monitoring would take place at the substation on a continuous basis and will be recorded on at least monthly basis. On the basis of these readings taken, a generation report would also be issued by MSEDCL
Frequency of monitoring/recording	Monthly
Value applied:	180,427.32
Monitoring equipment	The PP shall duly install the approved ABT meters with accuracy class of 0.2 s with online metering features at the metering point (Main Meter). The PP will also install Check meter with separate CT/PT of class 0.2s. Quantity of electricity exported by the Project to the grid would be calculated using the sum of readings taken at the main/check meter installed at the interconnection points. The WTGs of CLPWF would be connected to the main meter of accuracy class 0.2s at the substation. Data monitoring would take place at the substation on a continuous basis and will be recorded on at least monthly basis. On the basis of these readings taken, a generation report would also be issued by MSEDCL.

	For Type , Accuracy Class , Serial number refer Annex 01.
QA/QC procedures to be applied	The readings from main and check meters installed at the interconnection point will be checked every month at the time of metering of electricity generation. In case the meters are found to be operating beyond the permissible limits, it shall be immediately sent for calibration. The frequency of meter testing will be once in 5 years. It would be prudent to note that the meter testing and calibration is not within the control of the Project Proponent.
Purpose of data	Baseline Emissions calculation
Calculation method	Measured Value
Comment	The data will be kept for two years after the end of the crediting period or the last issuance of CERs for this Project activity, whichever occurs later.

Data / Parameter	EG _{import,y}
Data unit	MWh/yr
Description	Quantity of electricity imported by the Project from the grid in year y
Source of data	Joint Meter Reading Sheets and generation reports issued by Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL) for all the feeders to which WTGs of the project activity are connected. EG import, y will be summation of readings of individual Joint Meter Reading Sheets.
Description of measurement methods and procedures to be applied	Quantity of electricity exported by the Project to the grid would be calculated using the sum of readings taken at the main/check meter installed at the interconnection points. Data monitoring would take place at the substation on continuous basis and will be recorded on at least a monthly basis. On the basis of these readings taken, a generation report would also be issued by MSEDCL.
Frequency of monitoring/recording	Monthly
Value applied:	110.48
Monitoring equipment	The PP shall duly install the approved ABT meters with accuracy class of 0.2 s with online metering features at the metering point (Main Meter). The PP will also install Check meter with separate CT/PT of class 0.2s. The WTGs of CLPWF would be connected to the main meter of accuracy class 0.2s at the substation. <i>For Type , Accuracy Class , Serial number refer Annex 01</i>
QA/QC procedures to be applied	The readings from main and check meters installed at the interconnection point will be checked every month at the time of metering of electricity generation. In case the meters are found to be operating beyond the permissible limits, it shall be immediately sent for calibration. The frequency of meter testing will be once in 5 years. It would be prudent to note that the meter testing and calibration is not within the control of the Project Proponent.
Purpose of data	Baseline Emissions calculation
Calculation method	Measured value
Comment	The data will be kept for two years after the end of the crediting period or the last issuance of CERs for this Project activity, whichever occurs later.

Data / Parameter	EG _{facility,y}
Data unit	MWh/yr
Description	Quantity of net electricity generation supplied by the project

	plant/unit to the grid in year y
Source of data	Joint Meter Reading Sheets and generation reports issued by Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL) for all the feeders to which WTGs of the project activity are connected.
Description of measurement methods and procedures to be applied	Net electricity supplied will be calculated as the difference of electricity exported to and imported from the grid measure using the readings taken at the main/check meter installed at the interconnection point. $EG_{\text{facility},y} = EG_{\text{export},y} - EG_{\text{import},y}$ Joint Meter Reading Sheets and generation report issued by Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL) on a monthly basis shall be used for this purpose.
Frequency of monitoring/recording	Monthly
Value applied:	180,316.84
Monitoring equipment	Not applicable as it is a calculated value
QA/QC procedures to be applied	The value of this parameter can be cross checked with all the invoices generated for the sold electricity during the year y.
Purpose of data	Baseline Emissions calculation
Calculation method	Measured value
Comment	The data will be kept for two years after the end of the crediting period or the last issuance of CERs for this Project activity, whichever occurs later.

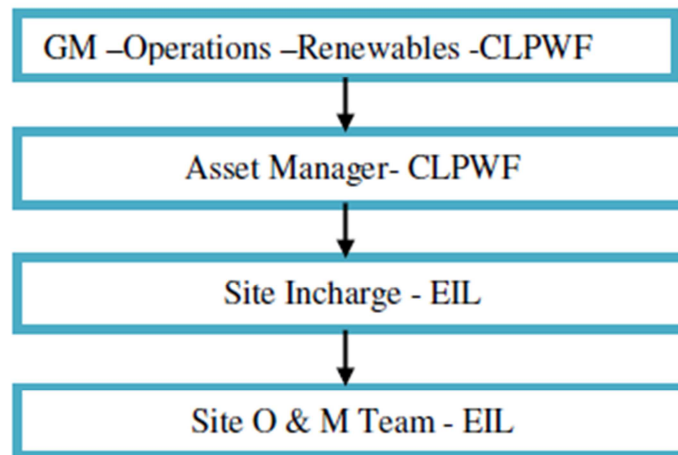
3.3 Monitoring Plan

The approved large scale methodology ACM0002 (Version 12.3.0), stipulates the monitoring of the net electricity generation supplied by the project plant/unit to the grid.

The monitoring plan has been formulated according to the approved consolidated monitoring methodology in ACM0002 Version 12.3.0.

CLPWF has entered into a comprehensive Operation and Maintenance agreement with the manufactures of the WTGs for a period of 10 years, which is extendable at renegotiated terms. The contractor EIL, under the O&M contract with CLPWF would be responsible for the operation and maintenance of the Project activity for the entire crediting period. The O&M personnel will be qualified engineers and will be trained at the WTG manufacturing facility of EIL for operating and ensuring best performance of the WTGs.

The authority and responsibility of project management as well as registration, monitoring, measurement and reporting lies with the PP. CLPWF has formulated a Project Team to ensure proper and continuous monitoring of the performance of turbines and generation of power. The operation and management structure implemented by the PP for the purpose of the Project activity is illustrated below:



The Project activity essentially involves generation of electricity from wind, the employed WTG can only convert wind energy into electrical energy and cannot use any other input fuel for electricity generation.

Frequency of meter reading: The meters installed at the metering point will have 15 minutes block online reading. However, the main/check meter reading at the metering point will be undertaken jointly by the representative of the MSEDCL and authorized officials of the PP on 1st day of every month for the preceding month.

Data archiving

Data will be archived electronically. The data would be archived two years after crediting period or last issuance whichever is later.

Calibration of Meters

The readings from main and check meters installed at the interconnection point will be checked every month at the time of metering of electricity generation. In case the meters are found to be operating beyond the permissible limits, it shall be immediately sent for calibration. The frequency of meter testing will be once in 5 years.

Apportioning of electricity: In case dates of monitoring period do not match with the dates of Joint Meter Reading Sheets / Generation reports issued by Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)

Apportioning will be carried out based on ratio of generation data recorded using LCS meters installed at the WTG. The LCS meters do not require calibration as the energy readings of electricity generated at the LCS meter is cross verified by the energy calculated by inverting system installed in the WTGs.

The emission reductions of that particular period (from the date of registration of the project till the end of the month) will be calculated based on percentage generation of that particular period at

WTG using LCS data multiplied with the total units generated in the month as per the Joint Meter Reading Sheets / Generation report issued by Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL).

The sample calculation is furnished below:

Generation from CLPWF WTGs for the monitoring period = A (From LCS data) Generation from CLPWF WTGs for the billing period = B (From LCS data)

Net energy exported from CLPWF WTGs for the billing period = C (JMR/Generation share report by MSEDCL)

Net energy export used for calculation of emission reduction for the monitoring period = (C * A/B)

4 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

4.1 Baseline Emissions

Baseline emissions include only CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity. The baseline emissions for the monitoring period are calculated as follows:

$$BE_y = EG_{PJ,y} * EF_{grid,CM,y} \text{ -----Equation 6 of ACM0002}$$

Thus,

$$\begin{aligned} BE_y &= 180,317 * 0.9487 \text{ tCO}_2\text{e} \\ &= 171,065 \text{ tCO}_2\text{e} \end{aligned}$$

4.2 Project Emissions

The project activity involves harnessing of wind energy and its conversion to electricity. Hence according to ACM0002 Version 12.3.0, there will be no project emissions in the project activity $PE_y = 0$

4.3 Leakage

As per ACM0002 Version 12.3.0, no leakage has been considered for the calculation of emission factor.

4.4 Net GHG Emission Reductions and Removals

According to the approved methodology ACM0002 (Version 12.3.0) Emission Reductions are calculated as

$$ER_y = BE_y - PE_y \text{ -----Equation 6 of ACM0002}$$

Where:

ER_y Emission reductions in year y (tCO₂e/yr)

BE_y Baseline Emissions in year y (tCO₂e/yr)

PE_y Project Emissions in year y (tCO₂e/yr)

Thus,

$$ER_y = 171,065 - 0$$

$$= 171,065$$

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2011	13,654	0	0	13,654
2012	93,508	0	0	93,508
2013	63,903	0	0	63,903
Total	171,065	0	0	171,065

Annex 01 - Type, Accuracy Class, Serial number & Change in Meter information

Main Meter					
Feeder No.	Meter identification-S No.	Line details (KV)	Meter Make & Class	Date of Calibration	Due date (5 years frequency)
4	13098992	33 KV	Elster & 0.2S	01 Aug 2011	31 July 2016
6	13098994	33 KV	Elster & 0.5S	01 Aug 2011	31 July 2016
7	13099004	33 KV	Elster & 0.2S	13 Sept 2011	12 Sept 2016
7	15687863 (Replaced) ²	33 KV	Elster & 0.2S	28 Feb 2013	27 Feb 2018
7	15687864 (Replaced) ³	33 KV	Elster & 0.2S	23 July 2013	22 July 2018
8	13098996	33 KV	Elster & 0.2S	01 Aug 2011	31 July 2016

Check Meter					
Feeder No.	Meter identification-S No.	Line details (KV)	Meter Make & Class	Date of Calibration	Due date (5 years frequency)
4	13098993	33 KV	Elster & 0.2S	01 Aug 2011	31 July 2016
6	13098995	33 KV	Elster & 0.5S	01 Aug 2011	31 July 2016
7	13099005	33 KV	Elster & 0.2S	13 Sept 2011	12 Sept 2016
8	13098997	33 KV	Elster & 0.2S	01 Aug 2011	31 July 2016

² Replacement of meter for Feeder 7, the check meter was utilized during replacement time. Generation data as mentioned in JMR only have been claimed.

³ Replacement of meter for Feeder 7, the check meter was utilized during replacement time. Generation data as mentioned in JMR only have been claimed.